Locking owner's playing guide lop Consoles

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Locking top console models



B-3



D-152 & RT-3



A-105 & C-3

B-3:

Most responsible for the popularity of organ sound today. It's never out of style, It's found in homes, restaurants, radio and TV stations, schools, churches, and probestras throughout the world. The PR-40 tone cabinet complements the B-3.

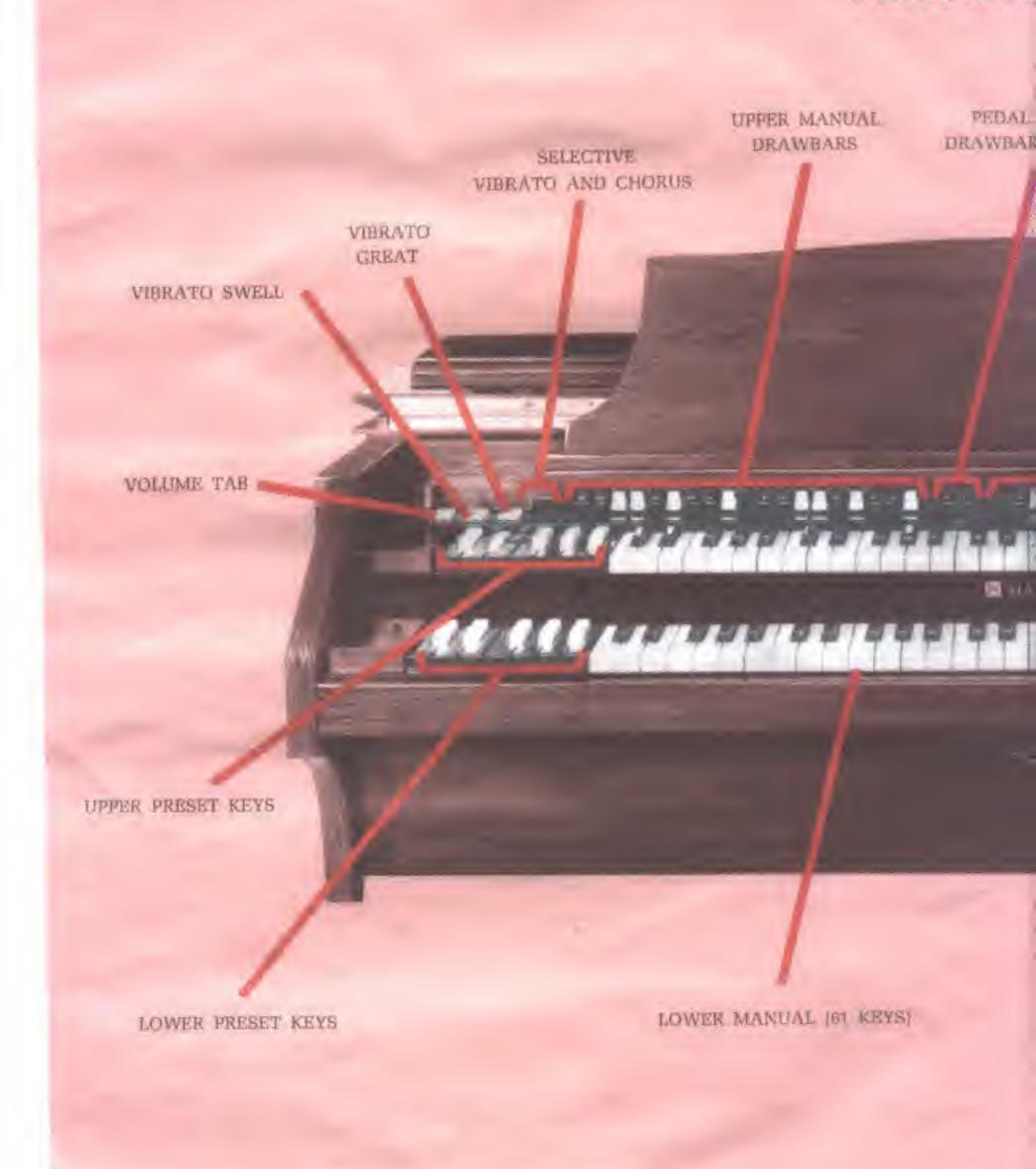
D-152 & RT-3:

Found in gracious homes, great cathedrals and wherever organ music is demanded. D-152 has a built-in sound system; the RT-3 depends on tone cabinets (PR-40 and QR-40).

A-105 & C-3:

Widely used in churches and auditoriums. They have great power and simple dignified beauty. The A-105 has a built-in sound system; the C-3 depends on the use of tone cabinets (FR-40 or QR-40).

FEATURE



CALL-OUT



	OLEP				
Features	A-105	C-3	B-3	D-152	RT-3
Selective Vibrato (3 degrees of true vibrato, 3 degrees of vibrato chorus available on both manuals, separately or simultaneously).	-	+	,		ě
Built-in Reverberation System* [echo]					
(three 12" speakers)	100				
(two 12", two 8")					
Stereo Reverberation (patented). 3-channel amplifier drives 4 speakers: two 12", two 8", Each channel has reverberation control.					
Touch-Response Percussion	,	14.			
Two Full 61-Note Manuals:	1	*			14
Tonal Controls 9 pre-set keys with customized tone selection for each manual		+			+
2 sets of 9 adjustable harmonic drawbars for each manual				•	
4 touch-response percussion tablets		4			4
2 adjustable pedal drawbars		4			4
32-Note Concave Radiating Pedalboard, A.G.O. Spec.		7		*	×
25-Note Flat Radiating Pedal board					
Solo Pedal System (32' to 1' pitches, funable to preference; also tablets for mute control." "pedal solo on," and continuously variable volume balancer)					
expression Pedal (with normal &					
Huminated Pedalboard	(A)			4	
Locking Top				- (
Pudor Styling in Oak & Walnut	9-				
Fraditional in light Cherry & Walnut					
Full Decorative Rear Panel	+		+	-	

	MILITED BASE	DOM:		
	STATE OF THE PARTY.	SOL		
E DE			Section 10	
			ORE	

Model	Dimensions*	Weight	Music Pov Output
A-105	49" W, 47" D, 46" H	525 lbs	27 Watts
B-3	49" W. 49%" D. 46" I	1. 425 lbs.	dependent up
C-3	49" W 42" D. 46" H		dependent up
D-152	57" W. 48" D. 47" H	. 540 lbs.	50 watts
RT-3	57° W. 48" D. 42" H	. 525 lbs.	dependent of
PR-10" (QR-10) Tone copinet	31%" W.16" D/37%"	H: 130 lbs.	50 walls

"with pedalhourd and beach,

"Three Channel Amplification: Bass amplifier drives two 15"speakers! treble reverb amplifier drives lower 12" speaker; treble amplifier drives upper 12" speaker.



TORE CABINET

Three separate speaker channels produce a beautiful live reverboration (echo) effect (three dimensional tons). Reverberation controls on the side of the cabinet make it easy to control the degree of reverb. There are separate controls for the treble and bass channels. Each can be adjusted to off, low. medium, and high. An optional switch kil may be installed on the console, permitting the organist to control the reverb while sitting at the keyboard. PR-40 has decorator styling and is available in walnut. oak, and cherry. (The QR-40 with lacquered surfaces is also available for out-of-sight planement.)

^{*}Dependent upon tone cabinet for models B-3, G-3 & RT-3.

Reverberation Control for the A-105 model is located above the Volume tab.

	OLEP				
Features	A-105	C-3	B-3	D-152	RT-3
Selective Vibrato (3 degrees of true vibrato, 3 degrees of vibrato chorus available on both manuals, separately or simultaneously).	-	+	,		ě
Built-in Reverberation System* [echo]					
(three 12" speakers)	100				
(two 12", two 8")					
Stereo Reverberation (patented). 3-channel amplifier drives 4 speakers: two 12", two 8", Each channel has reverberation control.					
Touch-Response Percussion	,	14.			
Two Full 61-Note Manuals:	1	*			14
Tonal Controls 9 pre-set keys with customized tone selection for each manual		+			+
2 sets of 9 adjustable harmonic drawbars for each manual				•	
4 touch-response percussion tablets		4			4
2 adjustable pedal drawbars		4			4
32-Note Concave Radiating Pedalboard, A.G.O. Spec.		7		*	×
25-Note Flat Radiating Pedal board					
Solo Pedal System (32' to 1' pitches, funable to preference; also tablets for mute control." "pedal solo on," and continuously variable volume balancer)					
expression Pedal (with normal &					
Huminated Pedalboard	(A)			4	
Locking Top				- (
Pudor Styling in Oak & Walnut	9-				
Fraditional in light Cherry & Walnut					
Full Decorative Rear Panel	+		+	-	

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^{*}Dependent upon tone cabinet for models B-3, G-3 & RT-3.

Reverberation Control for the A-105 model is located above the Volume tab.

Console Controls



ON/OFF SWITCH

With the Run switch in off position, push the Start switch to start. Hold the Start switch and count to 8 slowly. Then, while still holding the Start switch, push the Run switch to run position. Hold both switches in position and count to 4 slowly. Release the Start switch. The organ will be ready to play in 30 seconds. Repeat this procedure each time you start the organ. Push the Run switch to its off position to turn the organ off. Note: Loosen generator boils when installing. Follow instructions on installation card inside the organ beach.

EXPRESSION PEDAL!

Played with the right foot, the expression pedal controls the sound volume. Push forward with right foot too to increase volume. Rock foot back to decrease volume.

PEDALS:

The padalhoard (or pedal clavier) sounds the bass tones, adding depth, body and thythin to includy and accompaniment. Use the pedal drawbars to adjust pedal volume and tone. The left pedal drawbar controls the law, deep tones [16]; the right pedal drawbar controls brightness [8]. Note. The 32-note pedalboard (D-152 & RT-3) is played just like the standard 25 note pedalboard.

VOLUME:

Lets you play either at normal or soft volume. It reduces volume while giving you the entire range of the expression pedal.



VIBRATO SWELL AND VIBRATO GREAT:

A pulsating effect . . . a regular variation of pitch. It adds warmth of your music and expresses emotional intensity. Vibrate may be used with any one or a combination of tones: if gives you (ii) probestral effect. And it's seldom used when playing church music. Vibrate Swell affects the appear keyboard; Vibrate Great the lower manual.

VIBRATO AND CHORUS CONTROL:

You can select any one of six positions of vibrato and vibrato chorus: 3 degrees of vibrato; 3 degrees of vibrato chorus. Each is different, V-1 is "small"; it corresponds to the normal vibrato of most orchestral solo instruments. V-2 adds great tonal warmth. And V-3 adds a "theatrical" feeling.

Vibrato Chorus is a "celeste-like" effect. Vibrato and nonvibrato (ones are mixed in equal amounts. This is desirable when a French horn (without vibrato) is played with a violin (with vibrato). Chorus, when playing single notes, gives the effect of several solo instruments playing together. V-1 is the accepted amount of vibrato for church music. C-1 is sometimes used for hymns and postludes.

HERE ARE SOME WAYS TO USE VIBRATO:

- Use Swell vibrato only and set:
 Upper: violin 00 2444 443 V-3
 Lower: 00 3322 000 No vibrato
- 2. Use Great vibrato only and set:
 Upper: English Horn 00 3744 320 No
 Vibrato
 Lower: 00 3322 000 V-1
- Contrast ensemble timbres:

 Play four bars of a familiar tune (both hands on lower manual)

 Lower 00 5324 022 No Vibrato

 Play the next four bars like an echo (both hands on upper manual)

 Upper Vox Humana 00 2200 232 V-3

 Vibrato

SOLO PEDAL UNIT

(D-152 & RT-3 unly): It augments the 10' and 8' pedal drawbar tones with additional pitches — 32', 16', 8', 4', 2', & 1'. A volume knob controls the balance. Use it to play hymns and classical music which need a full, rich bass foundation.

	Upper Manua	al
Preset Keys	Drawbar Setting	Tone Quality
C		Cancel
C#	00 8740 000	French Horn 8"
D	00 8408 004	Tibies 8' & 2'
D#	00 8080 840	Clarinet 8"
Ē	08 8800 880	Novel Solo 8'
F	60 8088 000	Theater Solo 16'
F#	00 4685 300	Obos Horn 8'
G	60 8807 006	Full Tibles 16'
G#	00 6888 654	Trumpet 8'
0.99	The second secon	The state of the s
A A	76 8878 667	Full Theater Bress 16
A	76 8878 667 ist drawbars in 1st Gri	Full Theater Brass 16
A A# Adjo		Full Theater Brass 16 oup, Upper Manual
A A# Adjo	ist drawbars in 1st Gri	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual
A A# Adjo	ist drawbars in 1st Gri ist drawbars in 2nd Gr	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual
A A# Adju B Adju	ist drawbars in 1st Gri ist drawbars in 2nd Gr Lower Manua	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual
A A# Adju B Adju	ist drawbars in 1st Gri ist drawbars in 2nd Gr Lower Manua	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality
A A# Adju B Adju Preset Keys C	ist drawbars in 1st Gr ist drawbars in 2nd Gr Lower Manua Drawbar Sotting	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality Cancel
A A# Adju B Adju reset Keys C C#	ist drawbars in 1st Gri ist drawbars in 2nd Gr Lower Manua Drawbar Sotting DU 4545-442	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality Cancel Cello 8'
A A# Adju B Adju reset Keys C C# D	ust drawbars in 1st Gro ust drawbars in 2nd Gr Lower Manua Drawbar Sotting DU 4545 442 DU 4432 000	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality Cancel Cello 8' Dulciana 8'
A A# Adju Preset Keys C C# D D#	Lower Manual Drawbar Setting DU 4545 442 DU 4432 000 DU 4800 000	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality Cancel Cello 8' Dulciana 8' Vibraharp 8'
A A# Adju B Adju Preset Keys C C# D D# E	DU 4545 442 DU 4432 000 DO 2500 234	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality Cancel Cello 8' Dulciana 8' Vibraharp 8' Vox 8' & Tibia 4'
A A# Adju B Adju reset Keys C C# D D# E	Drawbars in 1st Gross thrower Manual Drawbar Setting DU 4545 442 DU 4432 000 DU 4800 000 DU 2500 234 DU 6554 322	Full Theater Brass 16 oup, Upper Manual oup, Upper Manual Tone Quality Cancel Cello 8' Dulciana 8' Vibraharp 8' Vox 8' & Tibia 4' String Accomp. 8'
A A# Adju B Adju reset Keys C C# D D# E F#	Drawbars in 1st Grosst drawbars in 2nd Grosst drawbars in 2nd Grosst drawbar Setting DU 4545 442 DU 4432 000 DU 4800 000 DU 4800 000 DU 2500 234 DU 6554 322 DU 5642 200	Full Theater Brass 16 dup, Upper Manual dup, Upper Manual Tone Quality Cancel Cello 8' Dulciana 8' Vibraharp 8' Vox 8' & Tibra 4' String Accomp. 8' Open Diapason 8'

				_
_	-			_
_				_
_				_
		ETK	_	
			_	_

There are twelve preset keys to the left of each manual and they are used only one at a time on each manual. The first key (C) on each group of preset keys is a cancel key. Depressing the cancel key releases any preset key previously depressed. The cancel key is not normally used but is needed in case several keys are inadvertently depressed.

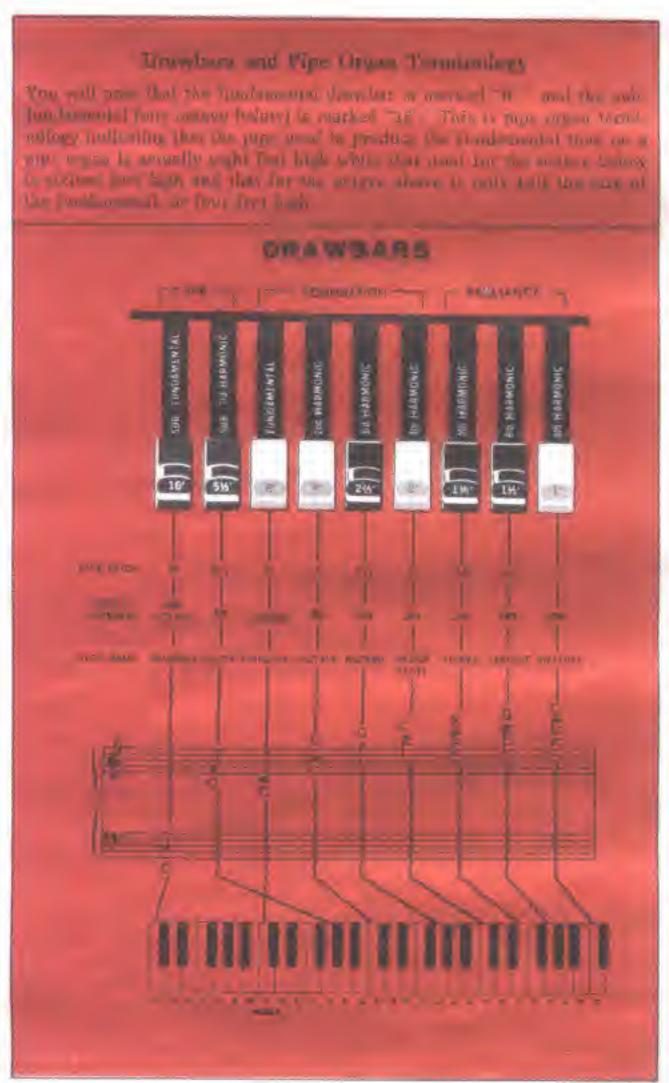
The next nine preset keys. E# through A, let you quickly change from a suft solo to a full litargical sound at the fouch of a fuger. The keys are graduated in volume from soft to loud (left to right) Generally, the white preset keys are solo, instrumental voices, while the black preset keys are ensemble voices. The preset voices provide almost unlimited registration flexibility instantly.

	Unp	er Manual	
Preset Køys	Drawbar Setting	Tone Quality	Dynamic Value
0		Cancel	
C#	00 5230 000	Stopped Flute	pp
D	DO 4432 000	Dulciana	ppp
D#	00 8740 000	Frênch Horn	fin
E	00 4544 222	Salicional	pp
F	00 5403 000	Flutes 8' & 4'	ρ
F#	00 4675 300	Oboe Horn	mi
G	00 5644 320	Swell Diapason	ml
G#	00 6876 540	Trumpet	Ť
A	32 7645 222	Full Swell	Ff.
167	DE (040 EEE	L'All Swell	10
A#		s in 1st Group, Upper	
	Adjust drawbar		Manual
A#	Adjust drawbar Adjust drawbar	s in lst Group, Upper	Manual
A#	Adjust drawbar Adjust drawbar	s in 1st Group, Upper s in 2nd Group, Upper	Manual
A# B	Adjust drawbar Adjust drawbar Lowe Orawbar	s in 1st Group, Upper s in 2nd Group, Upper Manual Tone	Manual Manual Dynami
A# B Preset Keys	Adjust drawbar Adjust drawbar Lowe Orawbar	s in 1st Group, Upper s in 2nd Group, Upper of Manual Tone Quality	Manual Manual Dynami
A# B Preset Keys C	Adjust drawbar Adjust drawbar Lowe Drawbar Setting	s in 1st Group, Upper s in 2nd Group, Upper of Manual Tone Quality Cancel	Manual Manual Dynami Value
A# B Preset Keys C C#	Adjust drawbar Adjust drawbar Lowe Brawbar Setting	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Cello	Manual Manual Dynami Value
A# B Preset Keys C C# D	Adjust drawbar Adjust drawbar Lowe Brawbar Setting 00 4545 440 00 4423 220	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Celto Flute & String	Manual Manual Dynami Value mp
A# B Preset Keys C C# D D#	Adjust drawbar Adjust drawbar Drawbar Setting 00 4545 440 00 4423 220 00 7373 430	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Cello Flute & String Clarinal Dinpason, Gamba	Manual Manual Dynami Value mp mp mf
A# B Preset Keys C C# D D#	Adjust drawbar Adjust drawbar Lowe Brawbar Setting 00 4545 440 00 4423 220 00 7373 430 00 4544 220	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Cello Flute & String Clarinal Dinpason, Gamba and Flute	Manual Manual Dynami Value mp mp mt mt
A# B Preset Keys C C# D D# E	Adjust drawbar Adjust drawbar Lowe Brawbar Setting 00 4545 440 00 4423 220 00 7373 430 00 4544 220 00 6644 322	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Cello Flute & String Clarinel Dinpason, Gamba and Flute Great, no reeds	Manual Manual Dynami Value mp mp mt mt
A# B Preset Keys C C# D D# E	Adjust drawbar Adjust drawbar Lowe Brawbar Setting 00 4545 440 00 4423 220 00 7373 430 00 4544 220 00 6644 322 00 5642 200	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Cello Flute & String Clarinet Dinpason, Gamba and Flute Great, no reeds Open Dispason	Manual Manual Dynami Value mp mp mt mt
A# B Preset Keys C C# D D# E F. F# G	Adjust drawbar Adjust drawbar Lowe Brawbar Setting 00 4545 440 00 4423 220 00 7373 430 00 4544 220 00 6644 322 00 5642 200 00 6845 433	s in 1st Group, Upper s in 2nd Group, Upper f Manual Tone Quality Cancel Cello Flute & String Clarinet Dinpason, Gamba and Flute Great, no reeds Open Dispason Full Great	Manual Manual Dynami Value mp mp mf fi fi fi

The last two preset keys for each manual select the times art up on the drawbars. Swell A# selects drawbar group one. Swell B selects drawbar group two and percussion voices. Great A# selects drawbar group four. Great B selects drawbar group five.

Hammond preset tones can be changed to suit the organist's style of playing or the type of music being played. Changing preset tones requires little more effort than changing stations on your pushbutton car radio. Make a note of your favorite registrations. At the root of the organ, in the appearingly band corner, is the "customizing" recorder panel. A simple instruction sheet nearby explains how to reset your tones. The only equipment needed is a screw-driver.

How harmonic drawbars provide thousands of beautiful tones



To take the fullest advantage of the wonderful harmonic drawbars of the Hammond organ, it is necessary to understand what "missic" really is. All sounds, musical or otherwise, are created by sending impulses or vibrations through the air. These are "felt" or "heard" in the sensitive mechanism of our ears. You may think you hear a single sound. Actually each sound or musical note, consists of a "fundamental" or basic tone and a number of "harmonics" or overtones, the latter being different when the same note is played on different instruments.

If you have a source of sound which will provide the fundamental sound of each note on the keyboard, plus a source of a large number of hormonics, you are in a position to combine these fundamentals and harmonics into musical lones similar to those of almost any instrument. And that is just what the harmonic drawbars of the Hammond organ do for you.

WHITE DRAWBARS

The first white drawbar for each manual represents the fundamental tone. All the other white drawbars are octave intervals of the fundamental tone. When you play the organ with the fundamental drawbar alone and then, one by one, add the white drawbars in sequence you will hear the addition of the same note an octave higher in each case. The tonal brilliance is greatly increased by adding white drawbars but the harmonics added are always in "consonance" or harmony.

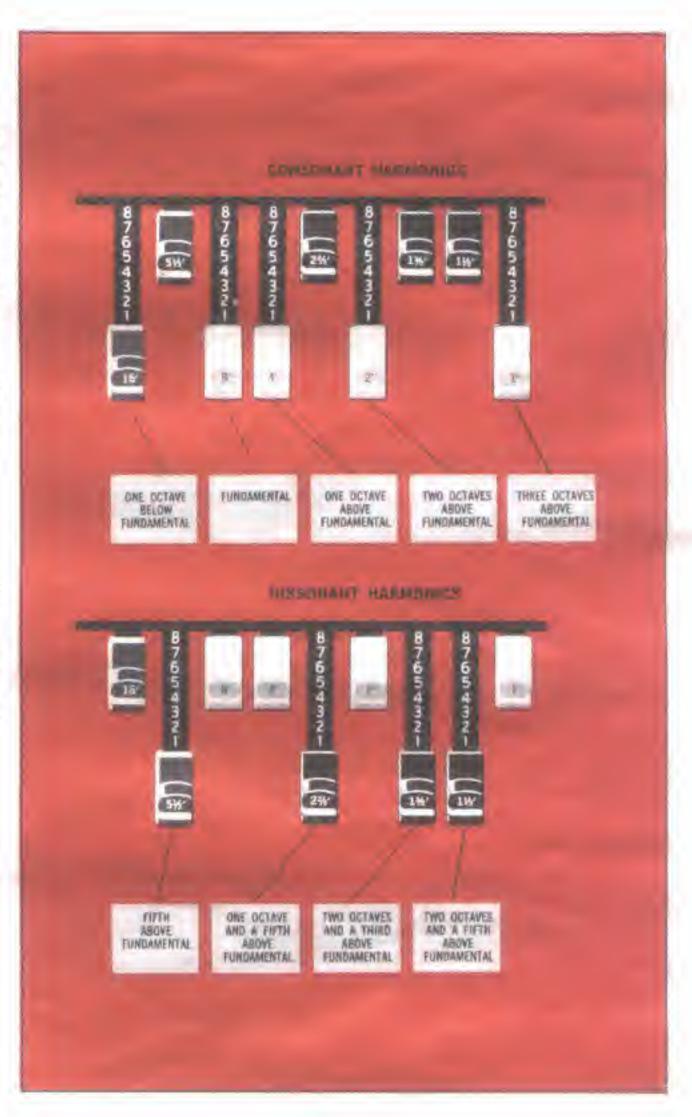
BLACK DRAWBARS

The black drawbars on the Hammond organ represent the dissonant harmonics which are also necessary in building rich tone colors. It must not be assumed that the dissonant harmonics are unmusical. They are found in varying degrees in many organ and orchestral voices. For instance, the mellowness of a horn, the pungency of strings, and the brilliance of reeds all owe much of their character to the presence of these harmonics in different degrees.

In general, however, the black drawbars should not be emphasized strongly above the white drawbars.

BROWN DRAWBARS

In addition to the white and black drawbars, there are two brown drawbars. They produce "sub-octave" effects. The first brown drawbar is the sub-octave of the fundamental. The second is the third harmonic of the sub-octave. They add depth and richness to drawbar registrations.



Registering tone families by shape



Regardless of the size of a pipe orgen or its number of stops, all of its voices are related to four basic families of tone. For instance, the string family includes such voices as Violin, Cello, Viola, Acolina, etc. The read family includes such voices as Obon Glavinst, Bassoon, English Horn, etc.

Tone families may be quickly set up on the harmonic drawbars by retaking a pattern or shape to each family.

These are the generalities which spnie to the timal resources of the organ, and in themseives profince pleasant and asable effects. Howover real hearity of tone is secured in two ways. The first is the use of registrations which have been worked out by fine organists, such as these published on most organ music. The second, and evenenally the one that best expression pour own feeling for the music. Is to create your own tonal effects, experimenting with and perfecting tones which you are to play your favorite selections. Mark your mu-Mr with those you like heat. Don't always play the some selection with the same registration. Explore other new tones. You can play each masical piece in hundreds of different water on the Hammond organ.

CETTING THE EXACT TONES YOU WANT

It might hoppen that a trampet quality registration suggested in a musical selection is not exactly the tone you have in mind. If you were playing on an organ on which all the "stops" had ness set up at the factory, you would have to be satisfied with one or a few trumpet tones.

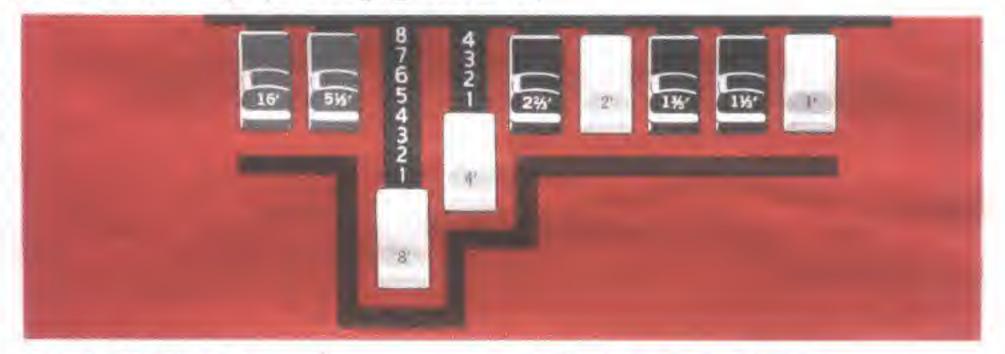
The Hammond organ, however, allows you not only to set up any tonal effect you want, but also to make many fine variations of the tame. Only on the Hammond organ can you play exactly the shade of the you want for every nelection and, perhaps even more important for every size and type of more in which you play.

The matter of the right shade of time for every exclosure is very important, because the acoustics of the room in which you play have much to do with the beauty of your music. So important is this matter of acoustics of the church or half that responsive rostom-built organs are "suited" after they are metalled in order to snapt the tone of the pipes to the acoustics of the church or half.

With the Hammond organ, a touch of a larger is all that is needed to make the tone quality softer or more brilliant racher in one harmone or aported to fact exactly right tive at montenant declare that in he one of the most wonderful of the many exclusive features of the Hammond organ.



Flute family (2 step pattern)



FLUTE TONES

Chorus of Flutes	80 8605 002
8' flute	00 6201 000
4' flute	00 0602 000
2' flute	00 0006 D04
Soft flutes	00 4000 000
Stopped flutes	00 5020 000
Tibias (theater)	80 8605 004
Light Concert flute	00.3700.000

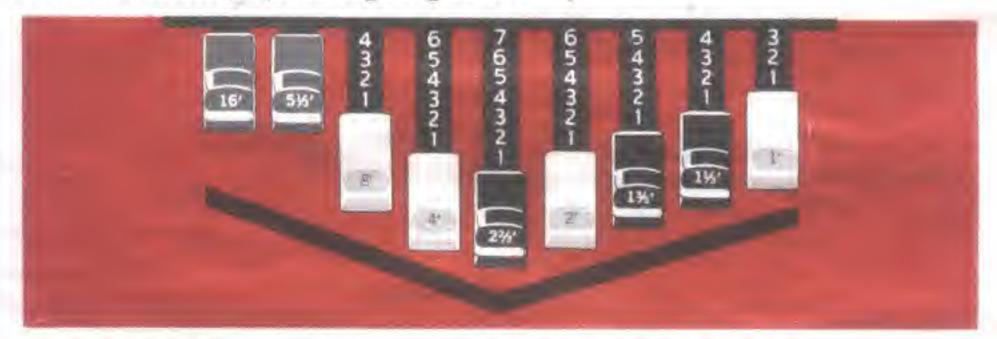
A BASIC FLUTE TONE

There are literally hundreds of flute tones available on the Hammond organ, in contrast to any other type of organ on which you can play only the one or perhaps two or three tones which are set up at the lactory. By simply changing the relative positions of the third and inurth drawbars to 00 3700 000 you can create a light concert type of

flute. Or by closing the fourth drawbar altogether and adding a little of the fifth drawbar pius a heavier fundamental, you can get a solo tibia — 00 8020 000. This should be used with Vibrato off.

Any combination of white drawlears provides various flute tones; first brown drawbar adds depth.

Reed family (triangle pattern)



REED TONES

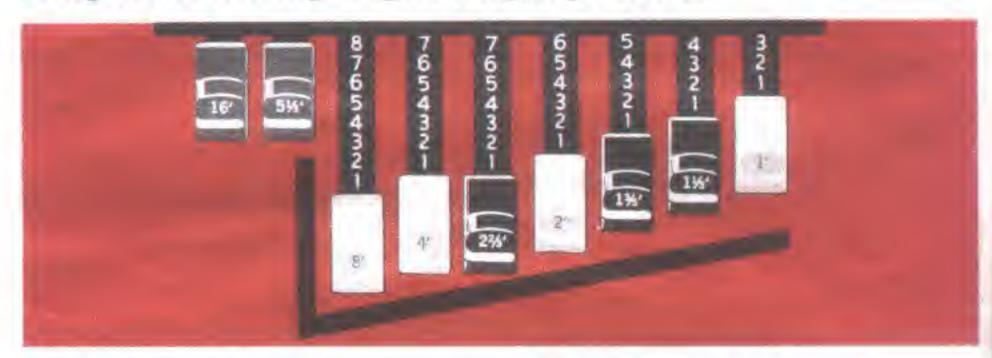
Chorus Reed (trumpet)	00 6876 540
English Horn	00 3678 660
Oboe	00 4764 210
Clarinet	00 6260 210
	00 6070 540
Trumpet	00 5777 770
Bassoon 8'	08 7500 000
Bassoon 16'	04 7400 000
French Horn	00 7654 321
Bass Hom	06 7888 800

A BASIC REED TONE

Reed tones include the brasses and woodwinds. The tones of the latter are created by vibrating reeds. The oboe, a typical reed tone, is obtained by emphasizing the drawbars in the middle of the group, with nearly as much of the first black drawbar as the fundamental itself.

Use of the first black drawbar is typical of many read registrations. It creates a "triangle" pattern that is easy to remember. The triangle pattern of a less powerful registration, 00 2333 200, is a useful accompaniment tone on the great manual.

Diapason family (right angle pattern)



DIAPASON TONES

Dispason Chorus	00	5756	254
Full Organ	54	7878	766
Bright Diapason	00	8777	666
Full Organ Theater Type	87	8766	553
Vibrato Normal			

A BASIC DIAPASON TONE

All dispason tones are characterized by a strong fundamental and second harmonic with relatively weak upper harmonics. Dispason tones are more affected by good or had accustics than are the tones of more pronounced character. Registration that is good in one location may not be satisfactory in another. The "phonon" type of dispason was

developed on pipe organs by designers who wanted to produce a soft fluty foundation tone.

In discussing tone as a structure, dispuson tones he between the flute times, which are almost devoid of upper harmonics, and the string tones characterized by strong upper harmonic development.

String family (bow pattern)



STRING TONES

String Chorus	12 3333 444
Salicional	00 2343 332
Aeoline	00 1222 221
Gamba	00 3484 443
Violin	00 4345 554
Vox Celeste	00 2434 432
Vox Humana	00 1300 400
Soft Strings	00 1324 321

A BASIC STRING TONE

The fourth and last of the organ hamily croups is the string family, both organ and orchestral. String tone qualities are characterized by especially strong upper harmonic development. The fundamental and second harmonic may be relatively weak. This harmonic structure is the opposite of flutes.

There are many hundreds of pus-

stille string tone registrations. Every string tone can be made either "dull" or "bright" by varying the amount of the upper harmonics. In fact, the string family considered the most versatile of the four tow families, can be soft or load, single strings or groups, used as solos of accompaniments.

Drawbar registrations

It is well to keep in mind that all organ tones are characterized not only by their individual harmonics but by the loudness with which they are played and the range in which they are used. String tones, for instance, should be played softly. You cannot open the expression pedal so that a string registration sounds as loud as a tuba and expect it to sound like a string! IF you play a violin registration low on the keyboard it may be beautiful but it will not sound like a violia. Here are some suggestions for the range in which to play various instramental effects, counting the lowest uctave on the keyboard (C to C) as 1, the second octave as 2,

the organ together, you can very easily combine any tones you wish on the Hammond organ. It is simpler than arithmetic, Let's say that you want to combine the following.

01 6788 540 00 8210 000

00 1354 321 In order to get a registration which will sound as if all three of these tones are being played together, you take the largest figure for each drawber, making the result:

01 8788 541

Another example:			
Tible 8'	60	8240	000
Vox Humana 8'	00	2423	321
The Two	00	FAAR	105



2nd, 3rd and 4th octaves
2nd and 3rd octaves
2nd and 3rd octaves
2nd, 3rd and 4th octaves
2nd, 3rd and 4th octaves
2nd, 3rd and 4th octaves
entire range
2nd, 3rd, 4th, 5th octaves
2nd, 3rd, 4th, 5th octaves
3rd, 4th and 5th octaves
entire range
2nd, 3rd, 4th, 5th octaves
2nd and 4th octaves

A good general rule is to play only single notes (not chords) in the 1st octave on tones not using the 2 brown drawbars or in the 1st and 2nd octaves on tones using the 2 brown drawbars.

COMBINING DRAWBAR REGISTRATIONS

just as the full organ effect is achieved by adding the "voices" of

THEATI	W ORGAN	BECHSTRAT	NOW S
Tibia 16'	72 0020 000	Vox Humana 8'	00 3400 332
Bourdon 16*	54 3100 000	Oboe Horn 8'	00 4763 000
Diapason 16'	64 3322 000	Saxophone 8'	00 2478 500
Solo Strings 16"	25 4421 000	Clarinet 8'	00 8382 700
Contra Viol 16'	24 3210 D00	English Horn 8"	00 3577 540
Contra Celeste 16'	23 4321 000	Tube 8'	00 5680 400
Vox Humana 16'	14 3110 000	Flute 4'	00 0803 030
Oboe Harm 16"	47 5430 000	Piccolo A	00 0600 000
Saxophone 16'	27 3210 000	Octave 4"	00 0545 321
Clarinet 16'	35 2000 000	Solo Strings 4'	00 0436 555
English Harm 16'	25 3442 100	Viol 4	00 0344 232
Ophicleide 16°	47 7600 000	Octave Celeste 4'	00 0324 220
Tibia B*	00 8240 000	Vox Humana 4'	00 0433 042
Concert Flute 8'	00 6421 000	Oboe Horn 4'	00 0606 031
Diapason 8'	00 5642 110	Clarion 4'	00 0515 230
Solo Strings 8'	00 2366 542	Tibia 2'	00 0006 001
Viol d'Orchestre 8'	00 2444 322	Piccolo 'Z'	00 0005 111
Viole Celeste 8'	00 2323 211	Twelfth	00 0060 020

Pop music registration

Meladies (single or double-note)

00 4680 006	00 5288 822
00 3460 704	00 1478 630
00 5070 052	808 0806 00
00 3558 808	00 8005 005
00 6005 700	36 0000 008
00 2268 888	08 6000 808
00 4678 333	07 5646 1106
486	
Melody	

ms mul	
Tibla 8'	00 8240 000
Oboe Hom 8'	00 4763 000
Saxophone, 8'	00 2478 500
Krumet 8'	00 11185 786
English Horn 8"	00 3577 540
Solo Strings 8'	00 2366 542
Vox Humana 8"	00 3400 332
Oboe Horn 16:	47 5430 000

Ensembles and Accompaniments

04	3508	863	00	5334	003	3
05	7800	806	00	6654	321	XIB
20	3004	845	00	2353	221	00-
46	8080	800	35	8857	004	
00	5006	006	00	1377	865	
60	5000	345	(1)	3500	420	4
00	5505	403	52	4660	055	8 ya.)

M-EOHIDAHIHDU (S	
Vox Humana 8'	00 3400 332
Viole Celeste 8°	00 2323 211
Soft Tibia	00 6130 000
Soft Tibia	00 5120 000
Concert Flute 8'	00 5421 000
Concert Flute 8"	00 6403 000
Soft Concert Flate	00 4210 000
Viole Coleste	00 2323 211

Classical organ registration

SWELL

Gedeckt 8' Salicional 8' Vox Celeste 8' Principal 4' Harmonic Flute 4' Piccolo 2' Siffloete 1' Mixture 3 ranks Contra Fagotte 16' Trumpet 8'	00 5141 100 00 3433 110 00 2322 110 00 0515 031 00 0804 011 00 0006 132 00 0000 005 00 0087 064 17 5321 000 00 6786 530
GREAT	
Quintadena 16' Principal 8' Hohl Flute 8' Octave 4' Mixture 4 ranks	23 0000 000 00 5754 210 00 6320 000 00 0626 121 00 0064 064
CHOIR	
Gedeckt 8' Flute d'Amour 4' Principal 2' Quint 1/3' Clarinet 8'	00 5030 100 00 0603 020 00 0006 002 00 0000 060 00 4262 421

COMBINATIONS

00 5433 11	et
00 5545 13	
00 5845 13	
00 5846 13	
00 6886 53	
00 6887 55	

COMBINATIONS

00 5756 221	Principal & 4' Octave
00 5757 223	Principal & 4' & 2' Octaves
23 5767 264	Full Great with Mix.
23 6887 564	Full Organ Coupled

COMBINATIONS

0	Ó	5633	120	Gedeckt & Flute d'Amour
0	0	5666	122	Gedeckt, Flue d'Amour
				& Principal
0	()	5036	102	Gedeckt & Principal
0	0	0606	022	Flute d'Amour & Principal
0	0	5666	162	Ged., Fl. 4º Prin., Quint

TRY YOUR OWN DRAWBAR REGISTRATIONS

Part of the fun of playing your Hammond organ is experimenting with your own drawbar arrangements. It is not essential that you use the registrations set up on non-, sie you may have. Those registrations merely represent the preference of the composet or arranger and may not be your choice of tonal color at all. You may also find that the acoustics of the room in which you are playing may make it desirable to vary slightly the registrations used. You may especially wish to supply a little more or a little less "brilliance" by verying the amount of the upper drawbars used.

Do not hesitate to experiment with tonal colors on your Hammond organ - there are many thousands of beautiful tones in the instrument and part of its enjoyment lies in creating new and lovely tones to make your music more interesting.

Usually arrangements with liammond organ registrations illustrate the arranger's preference for a great many changes of lonal colors. Sometimes these suggested changes are very "contrasty" in character and may come at places in the musa, where it is difficult to make them without a break in your music. These suggested registration. changes are a matter of taste and need not be made. Many line organists point out that it is usually undesirable to make drastic changes of tonal color.

It is suggested that you practice making very simple drawbar changes - one drawbar or two, at most, which you can do in a split second. This will give you a noticeable change of ione yet one that is a natural transition from the lone you have been using

You will enjoy creating tonal colors yourself, and will want to keep your favorites in a little notebook or mark them on your music.

Here's how to use the solo pedal unit (D-152 & RT-3 ONLY)



Do not use the pedal solo stops as a substitute for the Pedal drawbars. You can get the 16' and 8' foundation tones (disposon) only by using the pedal drawbars. The pedal solo stops are voiced in contrasting tones to simulate the pedal solo reeds (tuba, trombone, hombarde, etc.).

32' STOPS:

The 32' Bourdon and Bombards stops let the player set deep base notes in the second active of pedals. The use of these two stops makes it difficult to determine the pitch of notes played below G#. The Bourdon Stop gives an effect which is "felt" as a very low base unfulation when playing low in the liest pedal octave. The Bombards is used with higher pitched stops. When played alone on the low half of the lowest pedal octave, the extremely low pitch makes it of little musical use.

ON STOP:

A player can instantly turn on or off any solo combination registered with the other stops. For example. The pedal drawher combination 64 is set. The pedal solo is present with 16', 8', 4' and the volume is adjusted for solo bass. Flip on Pedal Solo On to hear pedal solo registration and drawbar registration. Flip off Pedal Solo On to hear only a companionental bass sound of pedal drawbar registration.

MUTE PEDAL STOP:

This step can be used with all pedal sula stops, it makes tones our mellow, less brilliant.

PEDAL VOLUME CONTROL:

Pedal sale volume is controlled by the small know to the right of the sale stops. Turn to right to increase volume. The volume of the pedal 16' and A' foundation topes is controlled by pulling the polat drawburs out towards you or by sliding them in

Bass pedal registrations

ACCOMPANIMENT PEDAL TONE:

Use drawbar combinations like B2 or 53. Do not use Solo Pedal Stops; they'll detract attention from the manual melody.

FULL ORGAN PEDAL TONE:

This type of bass is used generally for congregational singing, and concert organ music. Melodic interest is shared equally by pedals and manuals. A typical combination: pedal drawbars at 75: 16', 8', 4', 2' and 1' solo stops.

SOLO PEDAL TONE:

This type of hass is used for special purposes and may or may not lie in the bass range. For instance, a violin solo offect may be produced in the pedals with the 4' or 2' and 1' stops using vibrate. You can get other horn and solo reed effects with the vibrate off and only one stop set.





Solo Bass



Fun with percussion

Truch response perchasion lets you accent some righthand melody notes while others remain sustained. Tones will sound percussive only if you play the keys in a detached (non-togato) manner. Release the first key before pressing the second key.

Percussion is most officiate whom used to "flavor" the drawbar combinations set on the upper manual it does not affect the boyer manual.

PERCUSSION ON/OFF:

Percussion operates when the percussion tak is in an position and the preset key(N) is on Alf of the second group of upper drawbars work normally except for the 8th harmonic drawbar. This drawbar works only when percussion is off.

PERCUSSION VOLUME:

Regulates the volume of percussion At "normal, percussion is prominent compared to tones produced by the upper manual drawbars. At soft," percussion is less prominent.

PERCUSSION DECAY:

In 'slow,' percussive tomes decay slowly like a chimo: In Tast,' percussive tones decay rapidly like a sylophone or marimba.

PERCUSSION HARMONIC SELECTOR:

This tab determines the pitch of the percussion tones. At second, the pitch sounds an oclave above the fundamental drawbar. At third the pitch sounds an oclave and a lifth above the fundamental drawbar.

How to use percussion

Permission tones are rarely used alone, and should be used aparingly. The more effective percussion registrations provide great tonal contrast between permission and sustained tone.

Here are some auggestions:

Use the full V-3 vibrate on both manuals to give the percussion tone (with an vibrate) solu prominence.
 Do not use too many drawbars.
 If more than four drawbars are

'masked' by the greater harmonic development of the sustained tone.

3. Use even-numbered drawbar combinations if the percussion harmonic is old, and vice versa. For example: If the third harmonic percussion is used, the most effective drawbars on the second and fourth harmonic drawbars. If the second harmonic drawbars is used, then the third and fifth harmonic drawbars are most effective.

SUB FUNDAMENTAL DRAWBAR:

If the music registration involves the brown drawbars (or 10 slops), play the notes as written If the registration does not involve this pitch, play the music up an octave from that shown. Then add the subjundamental drawbar to not the same pitch intended by the composer This technique separates perceivaive tone from sustained time.

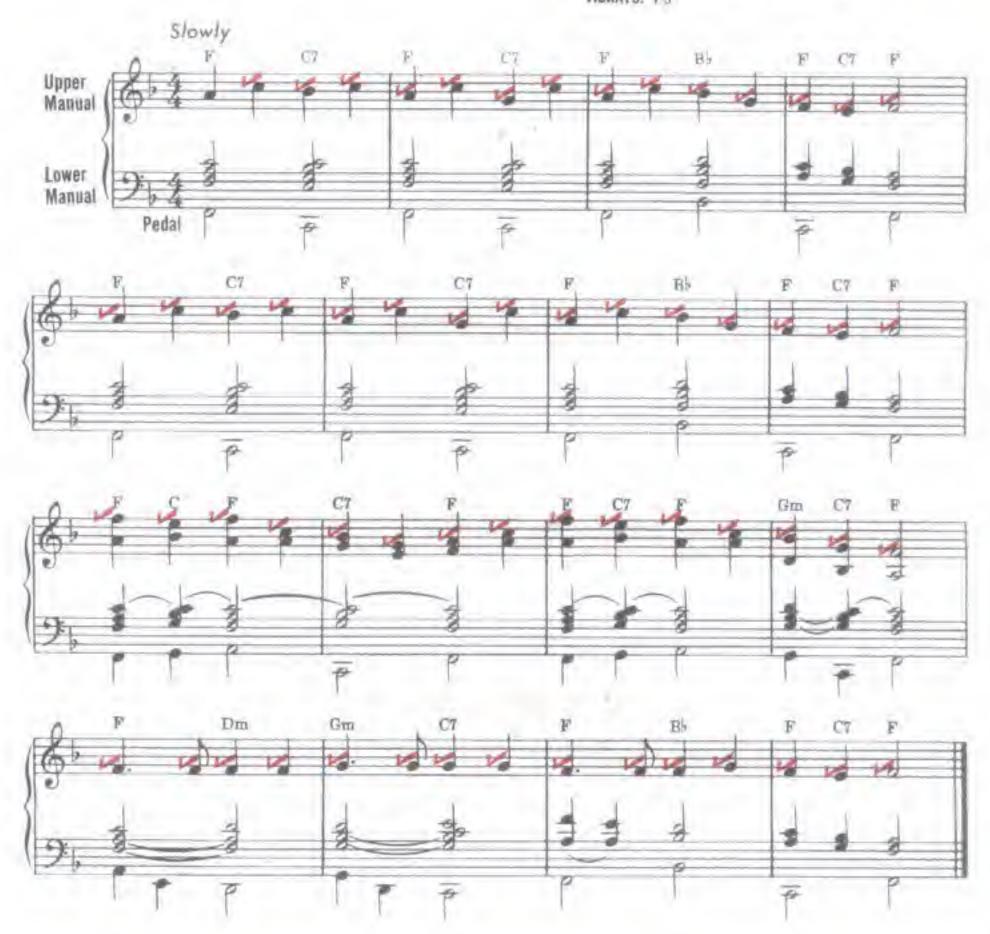
Special percussive effects

	76 8331 000	PRECUSSION SETTING		
Portamento		Normal	Slow	Second
A New Tone	on 0600 000	Normal	Slow	Sepond
Triple Tone Color	80 8800 000	Normal	Slow	Second
INSTRUMENTAL EFFECT	DRAWBAR	ACCOMPANIMENT	PERCHABITA	
Orphestra Hells	00 4544 430	00 8012 000	Norm	al Slow Second
Celeste	00 3402 000	00 3012 000	Norm	al Slow Second
Xylophone	00 5533 110	00 4423 220	Soft	Fast Third
Vibraphone	00 4700 000	00 4232 000	Norm	al Slow Second
Chimus	00 4803 000	00 3202 011	Norm	at Slow Second
Glockenspiel	84 8848 440	00 4423 222	Norm	al Fast Second
Bell Lyrn	84 0848 440	00 4423 222	Norm	al Slow Third

Vesper hymn

First play through this piece with the Percussion Harmonic. Selector tab set at "Third." Then play it at "Second." You'll hear a very strong and desirable tonal contrast in chime-like percussion.

> UPPER MANUAL: B 00 8650 000 LOWER MANUAL: A# 00 0422 000 PEDAL: 32 PERCUSSION: ON, NORMAL, SLOW, THIRD VIBRATO: V-3



Aloha oe

Play the entire right-hand melody on the verse with the second finger. It will automatically produce the detachment needed for percussion tone. Then repeat, playing the melody part in the usual manner with slight detachment. You'll hear the same percussive tone even though you're playing in a very slightly deteched manner.

UPPER MANUAL: B 00 8800 000
LOWER MANUAL: B 00 5422 000
PEDAL: 32
PERCUSSION: ON, NORMAL, SLOW, SECOND VIBRATO: V-3





Andantino

UPPER MANUAL: B)80 8800 000 LOWER MANUAL: A# 00 4434 112 PEDAL: 54 VIBRATO: V 3



TO #8 B 18 O. 0 σ 4 0

Melody in F

Upper Manual

This is a simple, left-hand rhythm accompaniment. The chord detachment must be as slight as possible.

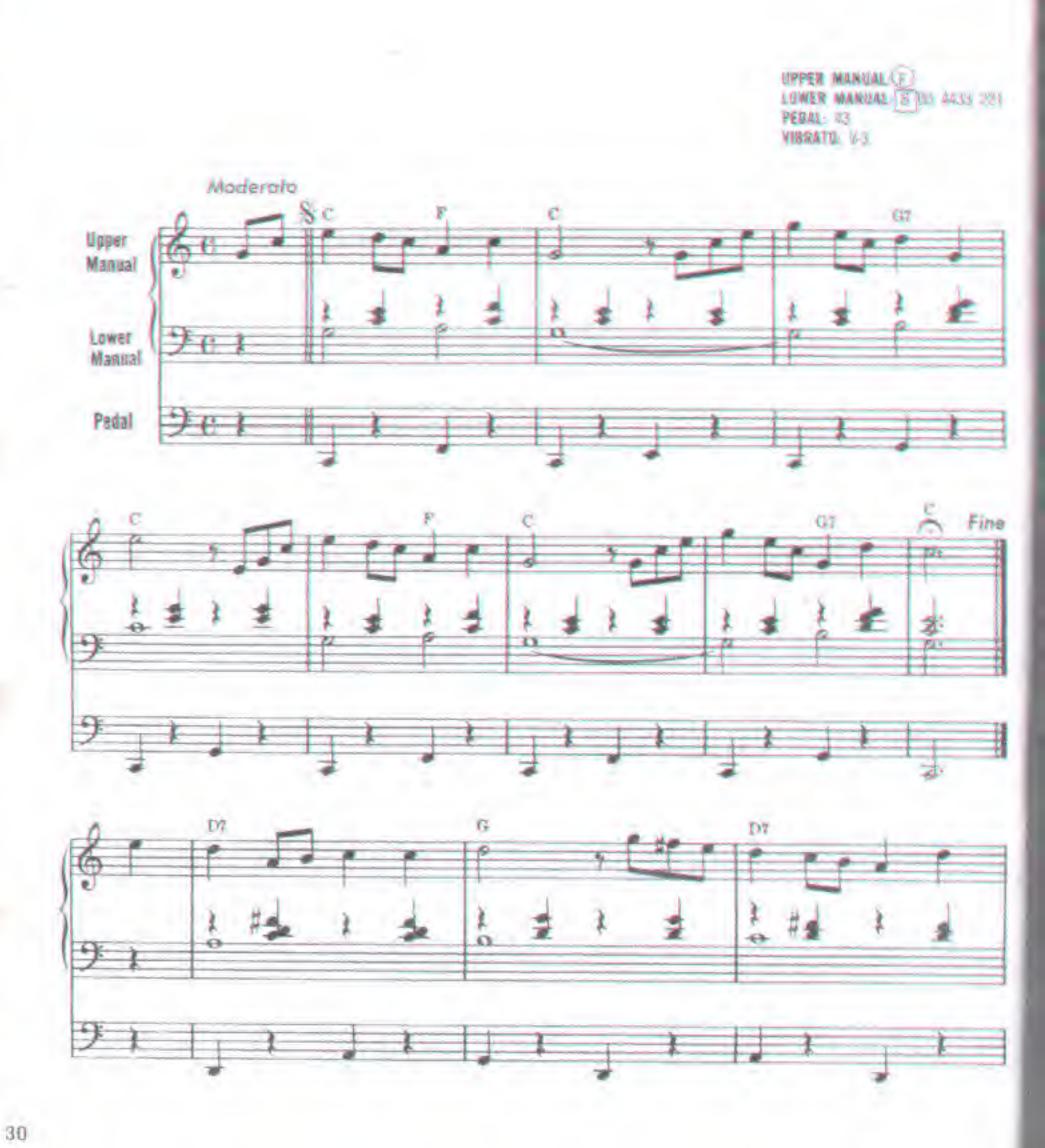




F#dim7



Forget-me-not





Orientale

Let's "orchestrate" by starting with a horn solo played in the register usually used by orchestral heros. Then change to a gypsy violin solo by playing one octave higher and using vibrato swell. UPPER MANUAL: A# 00 5788 643 LOWER MANUAL: A# 00 8050 300 PEDAL: 53. VIBRATO: V-3 (Start without vibrato swell and vibrato great) Am Upper Manual Lower Manual Pedal Play 8ve Vibrato Swell "ON" Am Am

How to transpose piano music to organ music

Since accompaniments for soloists and choirs are generally for piano, piano music must be rearranged for organ. This simply means simplifying the music. The big difference between organ music and piano music is piano's sustaining pedal. Piano music feafrom bass to treble, etc. All are impossible to perform on an organ. The organist must sustain tone with his fingers. Here are several tips on how to simplify piano arrangements.





How to transpose piano music (continued)

REPEATED ONORDS

a. Sustain top note: repeat remaining notes.



b. Sustain harmony on a "sustain tone" with the other hand.





LOND JURPS

a. Play the bottom chord with the left hand and sustain. Play top chord with the right hand.

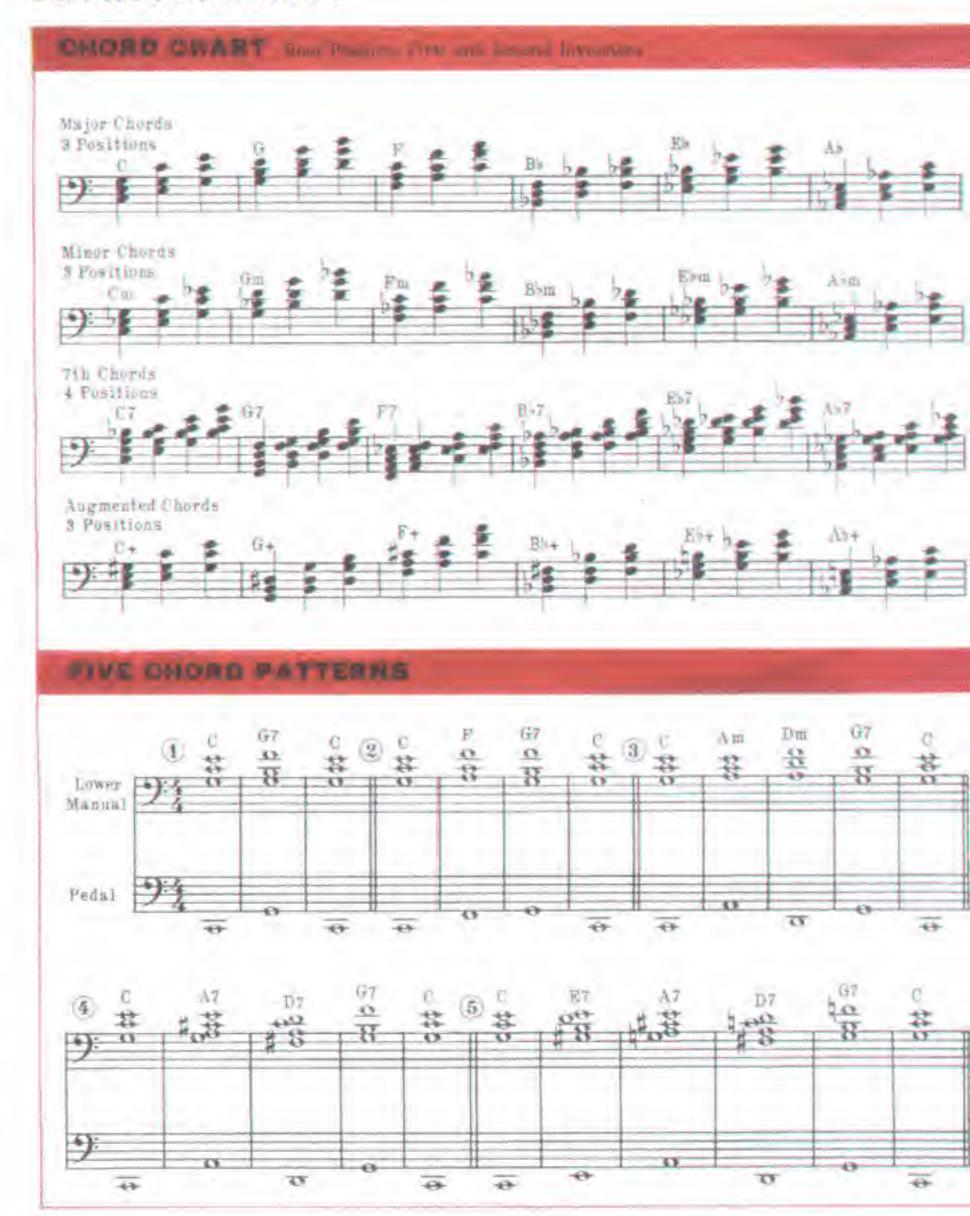


OCTAVES

a. Play only one of the notes. When playing top note, use a full 16 and 8 tone. Sub-octave drawbars are used so that the lower note of the octave sounds even though it's not played.



All about chords



CHORD MUDULATION

The key is the Seventh Chord. Study this Chord Wheel. The Wheel shows every major chord in its root position, and resolving to the Seventh. The

Seventh Chords move constantly counter-clockwise. Play through the Wheel starting with C. You'll modulate to every key, and end on C, where you started.



A MODULATION FORMULA

Let's try going from the key of G to the key of Eb.

- I. Play the G chord.
- Go to the minor chord in the second degree— Fm7.
- 3. Then to the tonic (major) of Eb with the 5th in the bass.
- 4. Next, to the Dominant 7th-Bb7.
- 5. Then to the tonic. And you have the new key -- Eb.



Musical terms

A cappella — Choral music without instrumental accompaniment.

Accelerando - Becoming faster.

Accidental - Sign of chromatic alteration, momentarily introduced for single notes or measures.

Adagio - Slow, tranquil.

Agogic — Denoting all the subtleties of performance achieved by modification of tempo.

Alla marcia - In march style.

Allegratto — Quite lively, moderately fast [faster than Andante, slower than Allegro].

Allegro - Lively, rapid.

Andante — Moving, moderately alow.

Andantino — A little faster than Andante.

Appoggiatura - Note of embellishment, grace note.

Attack The speed with which an organ speaks; time between the playing of a note and the resulting tone.

Augmented interval — Interval increased by a half step.

Aria - An elaborate solo song.

Arpeggio - Notes of a chord when played one after another.

A tempo - Return to the original rate of speed.

Cantabile ... In a singing style.

Chromatic scale - Composed of successive half steps.

Coda — A concluding section added to a composition.

Con brio - With vigor and spirit.

Con moto - With movement.

Consonance.—A combination of tones in agreement of sound.

Counterpoint A study of melodies and their interrelationships.

Da capo al fine - Repeat from the beginning to the end (D.C.J.

Dal Segno al fine - Repeat from the sign (&) to the end (D.S.).

Decay - The time during which one or more sustained notes die away.

Diminished interval —Interval decreased by a half step.

Organ which forms the backbone of each manual; the characteristic full (foundation) sound of the organ.

Distance — Denoting the natural scale consisting of five whole steps and two half steps, e.g. as it is produced on the white keys of the keyboard.

Dissonance — A combination of tones in disagreement, unrestful, needing a consonance to follow for completeness.

Dolce - Sweet, soft.

Duet — Composition for or randition by two performers.

Dynamic marks — Words, signs, etc., indicating degree of sound volume.

Etude — A study, primarily designed to aid the student in the development of his mechanical and technical ability.

Fine - Close, end.

Flat — Sign (b) which indicates lowering the pitch of a note by a half step.

Forte (f) - Louid.

Fortissimo (ff) - Very Inud.

Glissands — The execution of rapid scales by a sliding movement of the hand or fluger over the keys.

Half Step - Next adjacent key up or

Harmonics — Over-tones (or integral multiples of fundamental frequency) that make up tone color.

Il canto hen marcato - The melody played very distinctly.

Largo — Extremely slow, broad.

Lento - Slow,

Legate - Connected, smooth.

Ledger lines - Lines added above or below the staff for those notes too high or low to be represented on the staff.

Mena - Less

Mezzo - Half.

Mezzo forte (mf) — Moderately loud. Mezzo piano (mp) — Moderately soft.

Misterioso - In a style suggestive of mystery.

Moderate - Moderate rate of speed.

Molto - Much.

Non tanto - Not so much.

Octave — Interval embracing eight diatonic tones; e.g. C to C, up or down.

Percussion — Pertaining to those instruments which are sounded by striking or shaking.

Perdendo - Gradually dying away.

Perfect Interval - The unison 4th.

5th, and octave which retain
the same character whom inverted.

Pesante - Heavy.

Piano (p) - Soft.

Planissimo (pp) - Very soft.

Poco a poco - Little by little.

Presto - Very quick.

Prestissimo - As fast as possible,

Primo - First.

Rallentando - Gradoally growing slower (rall.).

Rinforzando—A sudden stress applied to a single note or chord.

Ritardando - Gradually growing slower (rit.).

Riterate - Immediate reduction of speed.

Root - That note on which a chord is built.

Secondo - Second.

Semplice - Simple.

Sempre — Always.

Senza - Without

Storzando (stz) — A sudden and strong accent on a single note or chord.

Sharp — The sign (#) which indicates a raising of a note by a half step. Smorzando - Dying away.

Solfeggio - Singing the degrees of the scale by syllables (usually DO, RE, MI, etc.).

Sopra - Above.

Sotto - Under.

Strepitose - Noisy.

Stringendo — Quickening.

Subito - Suddenly.

Syncopation — Any deliberate upsetting of the normal pulse of meter, accent, and rhythm.

Tacet - Is silent.

Tanto - Much, so much.

Tempo — Rate of speed of a composition.

Teneramente - Tenderly.

Tenuto - Hold, sustain.

Timbre - The color or quality of tone.

Timoroso - Timid, fearful,

Tremeto — A continuous fluctuation of amplitude used to increase the emotional quality of tone (sometimes denotes a light fluctuation of pitch, i.e. vibrato).

Tremulant — A mechanical organ device which produces pulsations of tone.

Iriad — Three-toned chord: root, third, and fifth.

Troppo - Too much.

Turn — An embellishment consisting of four or five notes (usually a principal note played in alternation with its higher and lower suxiliary).

Una corda — In piano, a direction to use the left (soft) pedal.

Unison. The pseudo-interval formed by a tone and its duplication.

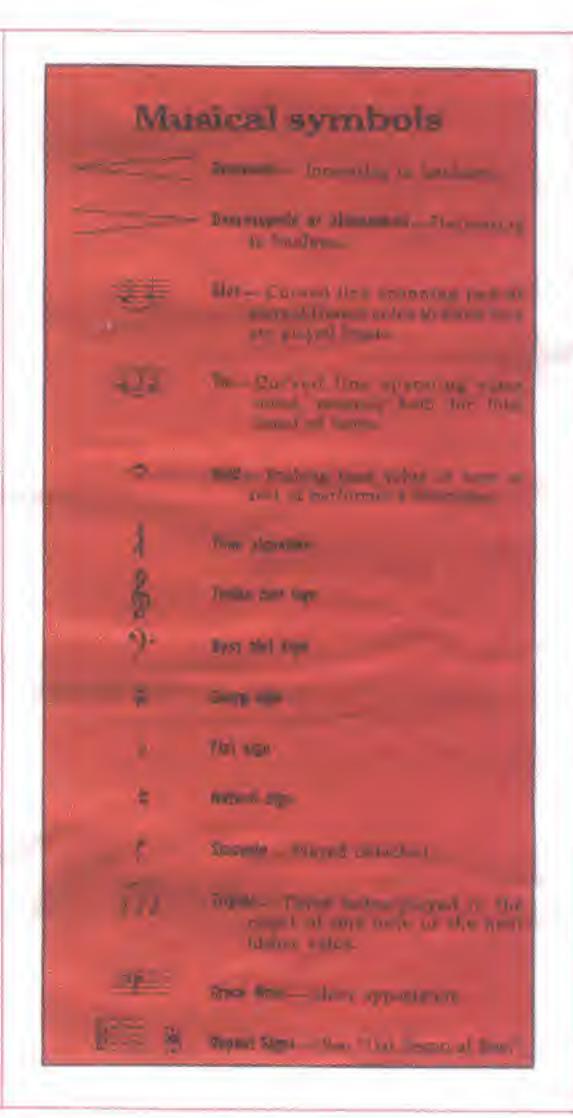
Veloce - Quick.

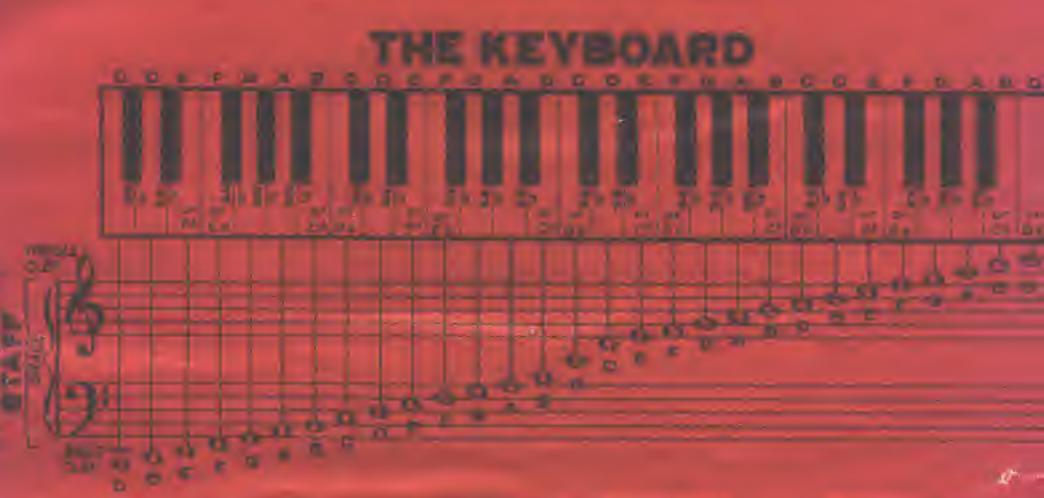
Vibrato —A continuous fluctuation of pitch used to increase the emotional quality of tone.

Vivace - Lively, brisk.

Vivo - Lively.

Whole step - Two half steps.





INTERVAL! On ollument in block Deflucion has reliable

Hors whom receive



I SO TONIC

IN IN SUBBIGIOMMANT

V = DOMINANT

1 Posts

III SMIERODO.

Sabonomed NO ASSESSMENT TONE

TV SECTION



GE OF MUSIC





TIME SIGNATURES | KEY SIGNATURES

Upped record determines among you recorded

Lower number seasonments selve or note guilling one count.

The latter 10 (or G) to earlying the clair sign (see a supplement of 4/4).

4 3 4 5 6 2 6

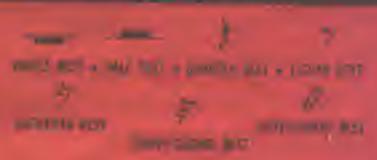
The sharps (\$1 to been parameters) of the positioning of sect and section by any of the consession for manager



NOTE VALUES



RESTS



How to care for your Hammond

Connect your argan to any 117 volt AC convenience outlet.

TURINGS Your tonewheel organ never requires tuning. And temperature and humidity do not affect it.

Clean lightly with a soft which or chamois slightly dampened.

Do not use a dry cloth. It builds up an electrostatic charge which attracts dust particles from the air.

FEDALS: Clean the same as plastic keys and tabs.

Dust with soft damp cloth or chamois. Use mild soap and lukewarm water if necessary. Apply it with a soft cloth. Remove it with a clean, soft cloth slightly dampened. Dry thoroughly: rub with grain Excessive rubbing in one spot or at edges may damage the finish: Use a good grade of liquid furniture wax.

Arrange to have your organ properly packed by your Hammond Organ dealer If not by a regular furniture mover. Don't risk damage to your valuable instrument by letting inexperienced movers handle it.

Please make certain you send in your Warranty Card today to insure your instrument's warranty protection. You'll also enjoy receiving your quarterly issue of the colorful and informative Hammond Times.